

PQNK – NATURE’S ALGORITHM FOR ABUNDANT FOOD

From a Failing Industrial Model to a Permanent Natural System

1 WHAT WENT WRONG IN AGRICULTURE

We tried to control nature instead of understanding and working with it.

-  Tillage destroyed soil structure and soil life
-  Bare soil lost organic matter and soil cover
-  Imbalanced water cycle – more runoff, less infiltration, falling groundwater
-  Dependence on synthetic fertilizers and chemicals
-  Pests, weeds and diseases became chronic
-  High cost of production
-  Climate degraded – heat, droughts, floods
-  Small farmers left behind – farming not viable



THE RESULT

-  Soil degraded
-  Water wasted
-  Costs increased
-  Yields stagnated
-  Food quality declined
-  Risks increased
-  Farmers became dependent

The problem is not the farmer. It is the system we inherited.

2 PQNK – THE NATURAL SYSTEM

Nature’s algorithm has sustained life on Earth for over 400 million years.

-  No tillage. No disturbance.
-  Permanent soil cover with living mulch.
-  Living roots all year round.
-  Biodiversity encouraged.
-  Water conserved and cycles naturally.
-  Soil life builds soil fertility.

NATURE’S DESIGN ALWAYS DELIVERS

-  Builds soil
-  Stores water
-  Recycles nutrients
-  Protects biodiversity
-  Regulates climate
-  Produces 3X or more biomass per unit land

PQNK is not against nature. PQNK is agriculture according to nature.
Learn. Align. Apply. Sustain.

3 HOW PQNK IS IMPLEMENTED

A simple, logical, one-time transition to a permanent system

STEP 1

BREAK THE HARDPAN

Deep rip or subsoil to break hardpan (7–17 inches). Create channels for roots and water.



STEP 2

CORRECT HIGH pH

If soil pH is above 8, apply 8 kg sulfuric acid per acre in furrow water through deep irrigation.



STEP 3

MAKE BEDS & PLANT JANTAR

Shape permanent beds and furrows. Plant Jantar (Sesbania) on beds for biomass and soil building.



STEP 4

NO-TILL PLANTING THROUGH MULCH

Use SIPP/VIPP planters to plant seeds through mulch. Keep roots, keep cover, keep life permanent.



CONTINUOUS PRACTICE

-  Irrigate only when needed
-  Keep soil covered
-  No synthetic chemicals
-  Encourage biodiversity
-  Observe, learn and improve

One-time correction. Permanent system. Generational benefits.

4 PQNK BENEFITS – FARMERS PERSPECTIVE

LOWER COST OF PRODUCTION



- No tillage – less fuel
- No fertilizers
- No pesticides
- Less irrigation water
- Less machinery use
- Less labor
- More savings



HIGHER YIELD & STABILITY



- Improved soil fertility
- Better root growth
- Better water use
- More tillers/ears/fruit
- Higher harvest index
- Consistent yields



LOWER RISKS & MORE RESILIENCE



- Pest and disease pressure reduced
- Drought tolerant
- Flood resilient
- Soil erosion stopped
- Climate resilient system



HIGHEST QUALITY PRODUCE



- More nutrition
- Better taste
- Safer food
- Longer shelf life
- Premium value
- Healthier families



Healthy soil. Healthy crop. Healthy farmer. Healthy future.
PQNK – Profitable. Sustainable. For Generations.

1

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